i1000SR Preventative Maintenance Procedure

Customer Name	Serial Number	
Customer Number	Ticket Number	
City	FSR Name	
Telephone	Date	

Dre cite Investigative Presedures	Completed		
Pre-site Investigative Procedures	Completed		
Interview customer for any on-going issues and order parts as necessary.			
Note: If the instrument is experiencing ongoing assay imprecision or accuracy issues, perform the ISA 117-019 (latest revision) Assay Troubleshooting i1000SR prior to completing the PM.			
Ensure PM parts are available per the parts list at the end of this procedure.	П		
Verify Abbott Link connection status & review message history log for issues.			
On-site Investigative Procedures	Completed		
Verify TSB status of instrument.	Completed		
Verify 13B status of instrument. Verify customer has performed a recent software back-up and current system back-up CD is	Ē		
available. Perform system backup, if needed (M&D 6004)			
Review Maintenance & Message History Logs and advise customer on performance of customer maintenance procedures and inventory of customer maintenance parts.			
The removal and replacement instructions for L/N parts are available on the System Control Center (SCC) in the online Operations Manual.			
Note: Follow local Service Organization processes if it is necessary to charge customer for LN parts and/or labor.			
SCC / Module Shutdown	Completed		
Perform unload of reagent kits from reagent carousel. Store in refrigerated area. Check reagent cover LEDs on reagent distribution board to verify reagent cover battery condition. Blinking ALIVE (upper) & STATUS (lower) LEDs indicate battery needs to be replaced NOTE: Replacement batteries (type BR2032) are not stocked by Abbott & should be sourced locally Inspect doors, covers, & hinges for misalignment, squeaks, etc. Power off SCC & Processing Module P-248 Startup and Shutdown / P-248 Startup and Shutdown Batter Batter Process Distribution Batter			
Lower Fluidics Area	Completed		
Inspect area for leaks & dry buffer build up. Clean as needed.			
Verify all tubing connections are tight & secure.			
Replace vacuum filter, as needed (R&R K2.06 Vacuum Pump Filter)			
(R&R K2.06 Vacuum Pump Filter Assembly)			

Replace reagent cooler condensate inline filter, as needed.

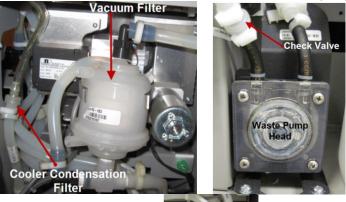
Replace waste pump head, as needed. <u>(R&R K2.08 Waste Pump Head)</u> / <u>(R&R K2.08 Waste Pump Head)</u>

Replace in-line waste pump to pressure switch tubing check valve, as needed.

Inspect & secure cable connections on fluidics distribution board & sensors, as needed.

Perform MD 3181 Vacuum Diagnostics to check system health, if check fails:

- Check fittings on vacuum accumulator cap for cracks & kinked tubing.
- Flush out vacuum accumulator bottle if build-up is present. Ensure cap is tight







Bulk Solution / Waste Area

Inspect area for leaks & dried buffer buildup; clean as needed.

Clean area of RVs, dust, etc.

Verify tubing connections are tight.

Verify waste platform movement is not obstructed.

Inspect Pre-Trig / Trig level sensor fittings for cracks and/or kinked tubing.

Clean out Pre-Trigger / Trigger Tray

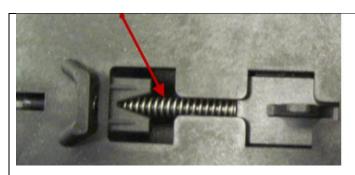


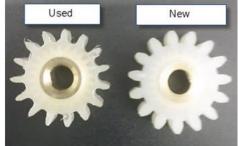


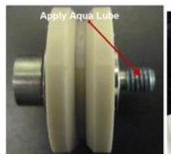


Lower Fluidics Area Completed Inspect external waste pump (if present) tubing & connections. Power off external waste pump and clean as needed. **External Waste Pump Process Path** Completed Inspect & clean the Wash zone & PT / T manifold assemblies. Perform MD2057 WZ Pressure Test and replace any WZ valves that fail. Utilize ISA 117-007(latest revision) for cleaning tips & techniques Verify date codes for Trigger / Pretrigger manifold valves and replace if > 2 years Write installation date on replacement Trigger / Pre-Trigger Valves for future 2 yr date verification Inspect & clean the Process Path cover. Clean all buffer build-up & ensure lane rotators do not bind Remove, inspect, & clean (2) Vortexers • Verify Vortexer cups move freely & cable connections are secure Inspect for Trigger leakage around CMIA Reader & Shutter solenoid, clean as needed. If optics must be removed for cleaning, ensure the maintenance cap is applied to the light pipe Verify shutter solenoid movement is not obstructed Clean & inspect process path disk, track, and home sensor Inspect disc for grooves, etching, & wear Common process path problem areas: wash zones, vortexers, diverters, & optics Verify RV Present switch arm moves freely. Clean & inspect process path LLS antenna; verify cable connections are secure. (R&R E2.02 LLS Antenna Process Path) / (R&R E2.02 LLS Antenna Process Path) Manifold T / PT Manifold







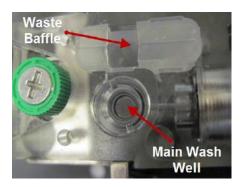




Wash Cup / Upper Waste Manifold

Wash Cup assembly

- - Remove & clean wash cup baffle & check for leakage.
 - Verify cable connections are secure.
- Upper Waste Manifold
 - Inspect thermistor tubing & connections.







Completed

Pumps & Syringe Completed Pumps Upper Pumps / Syringe Inspect Trigger / Pre-trigger pumps & Sample Syringe for leakage & check all connections. Lower Pumps (located behind Trigger / Pre-trigger sliding tray). Inspect Buffer & Transfer pumps for leakage & check all connections. **Verify Instrument Performance** Completed Review PM checklist with customer.

Ensure appropriate Quality Control meets specification and calibrate as necessary.

Information for Level 2 Follow Up				
Commonto				
Comments:				
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Field Engineer Signature:				
Customer Signature:				

Field Service PM Parts List				
Part #	Description	Qty	Criteria	
7-205087-04	PM Kit, i1000sr (RoHS)	1	Evaluate if kit is needed or if there will be cost savings by using individual parts.	
7-100302-01	Reagent Cooler In-line Filter	1	Contained in PM kit	
7-200055-01	Reagent Bottle Rotator Wheel	1	Contained in PM kit	
7-200370-02	Vacuum Filter Assembly	1	Contained in PM kit	
7-200378-01	Pump Head, Liquid Waste	1	Contained in PM kit	
7-202660-01	Tubing, Waste Pump to Pressure Switch	1	Contained in PM kit	
7-202411-04	Pinion Gear kit i1000sr (used with reagent carousel motor with replaceable gear 7-200635-00)	1	Replace if worn	

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